

SAFETY DATA SHEET (SDS)

SDS Compliant with REACH Regulation (EC) No 1907/2006 – N° 453/2010

Foamfix

Version No. 1

Revision Date: 28/08/19

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SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

| | | |
|--|--|--|
| 1.1. Product identifier. | Product Name: Foamfix | |
| 1.2. Relevant identified uses of the substance or mixture and uses advised against. | Identified uses: Construction chemicals, assembly foam. Uses advised against: Any other use than the advised purpose. | |
| 1.3. Details of the supplier of the datasheet. | Hodgson Sealants (Holdings) Limited Belprin Road Beverley East Yorkshire HU17 0LN | Tel: + 44 (0)1482 868321 Fax: + 44 (0)1482 679337 E-mail: SDS@hodgsonsealants.com |
| 1.4. Emergency Phone Number (24 hours) | Tel: E-mail: | +44(0)333 600 2424 24-7emergencyadvice@ohes.co.uk |

SECTION 2. HAZARDS IDENTIFICATION

| | |
|---|--|
| 2.1. Classification of the substance or mixture. <u>2.1.1. Classification according to regulation (EC) No 1272/2008 [CLP].</u> | Aerosol 1: Pressurised container: May burst if heated., H229 Aerosol 1: Flammable aerosols, Category 1, H222 Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400 Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard, Category 1, H410 Carc. 2: Carcinogenicity, Category 2, H351 Eye Irrit. 2: Eye irritation, Category 2, H319 Lact.: Reproductive toxicity, effects on or via lactation, H362 Resp. Sens. 1: Sensitisation, respiratory, Category 1, H334 Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1: Sensitisation, skin, Category 1, H317 STOT RE 2: Specific target organ toxicity, repeated exposure, Category 2, H373 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335 |
|---|--|

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2.2. Label elements.

2.2.1. Classification according to regulation (EC) No 1272/2008 [CLP].



Signal word; **DANGER**

Hazard Statements;

Hazard-determining components of labelling:

H222 - Extremely flammable aerosol

H229 - Pressurised container: May burst if heated

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H351 - Suspected of causing cancer

H362 - May cause harm to breast-fed children

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements

P101: If medical advice is needed, have product container or label at hand

P102: Keep out of reach of children

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking

P211: Do not spray on an open flame or other ignition source

P251: Do not pierce or burn, even after use

P271: Use only outdoors or in a well-ventilated area

P280: Wear protective gloves/protective clothing/eye protection/face protection

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F

P501: Dispose of the contents/containers in accordance with the current legislation on

waste treatment.

Supplementary information:

EUH204: Contains isocyanates. May produce an allergic reaction

Substances that contribute to the classification

Alkanes, C14-17, chloro; 4,4'-methylenediphenyl diisocyanate, isomers and homologues

Additional Labelling (Annex XVII, REACH):

Persons already sensitised to diisocyanates may develop allergic reactions when using

this product.

Persons suffering from asthma, eczema or skin problems should avoid contact, including

dermal contact, with this product.

This product should not be used under conditions of poor ventilation unless a protective

mask with an appropriate gas filter (i.e.

type A1 according to standard EN 14387) is used. **vPvB**: Not applicable.

Product fails to meet PBT / vPvB criteria.

2.3 Other hazards:

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SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance: Not applicable.

3.2. Mixtures

Chemical description: Mixture composed of organic substances

Components: In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Name | CAS No. | EC No. | REACH Registration No. | % (weight) | Classification according to Regulation (EC) No 1278/2008 (CLP). |
|---|------------|-----------|------------------------|------------|--|
| Alkanes, C14-17, chloro | 85535-85-9 | 287-477-0 | 01-2119519269-33 | 40 - <60 | Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Lact.: H362; EUH066 - Warning |
| 4,4'-methylenediphenyl diisocyanate, isomers and homologues | 9016-87-9 | - | - | 20 - <40 | Acute Tox. 4: H332; Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 3: H335 - Danger |
| Isobutane | 75-28-5 | 200-857-2 | 01-2119485395-27 | 5 - <10 | Flam. Gas 1: H220; Press. Gas: H280 - Danger |
| Dimethyl ether | 115-10-6 | 204-065-8 | 01-2119472128-37 | 5 - <10 | Flam. Gas 1: H220; Press. Gas: H280 - Danger |
| Propane-1,2-diol, propoxylated | 25322-69-4 | 500-039-8 | 01-2119493630-37 | 5 - <10 | Acute Tox. 4: H302 - Warning |
| Propane | 74-98-6 | 200-827-9 | 01-2119486944-21 | 2.5 - <5 | Flam. Gas 1: H220; Press. Gas: H280 - Danger |

Additional information: For full text of H-statements: see SECTION 16.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

Following inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

Following skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

Following eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

Following ingestion:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2. Most important symptoms and effects, both acute and delayed.

Acute and delayed effects are indicated in sections 2 and 11.

4.3. Indication of any immediate medical attention and special treatment needed.

No further data available.

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SECTION 5. FIREFIGHTING MEASURES

| | |
|--|--|
| 5.1. Extinguishing media Suitable extinguishing media: | If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO ₂). IT IS RECOMMENDED NOT to use tap water as an extinguishing agent. |
| 5.2. Special hazards arising from the substance or mixture: | As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk. |
| 5.3. Advice for firefighters Additional provisions: | Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit) in accordance with Directive 89/654/EC. Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| | |
|--|--|
| 6.1. Personal precautions, protective equipment and emergency procedures. | Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection. |
| 6.2. Environmental precautions: | Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment. |
| 6.3. Methods and material for containment and cleaning up. | Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13. |
| 6.4. Reference to other sections | See SECTION 8 and 13. |

SECTION 7. HANDLING AND STORAGE

| | |
|--|--|
| 7.1. Precautions for safe handling 7.1.1. Precautions for safe manipulation: 7.1.2. Prevention of fires and explosions: 7.1.3. Prevention of ergonomic and toxicological risks: 7.1.4. Prevention of environmental risks: | Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used. Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products. Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity. |
| 7.2. Conditions for safe storage, including any incompatibilities. | Store in a cool, dry, well-ventilated location. Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5. |
| 7.3. Specific end use(s). | Field of application of the product is described in Technical data sheet (TDS). |

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters: Maximum airborne concentrations at the workplace:

| Identification | Environmental limits | | |
|----------------|---|------------|----------|
| | Dimethyl ether CAS: 115-10-6 EC: 204-065-8 | IOELV (8h) | 1000 ppm |
| | IOELV (STEL) | | |

DNEL (Workers):

| Identification | | Short exposure | | Long exposure | |
|--|------------|----------------|----------------|------------------------|----------------------|
| | | Systemic | Local | Systemic | Local |
| Alkanes, C14-17, chloro CAS: 85535-85-9 EC: 287-477-0 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 47,9 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 6,7 mg/m ³ | Non-applicable |
| Dimethyl ether CAS: 115-10-6 EC: 204-065-8 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 1894 mg/m ³ | Non-applicable |
| Propane-1,2-diol, propoxylated CAS: 25322-69-4 EC: 500-039-8 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 84 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | Non-applicable | 10 mg/m ³ |

DNEL (General population):

| Identification | | Short exposure | | Long exposure | |
|--|------------|----------------|----------------|-----------------------|----------------------|
| | | Systemic | Local | Systemic | Local |
| Alkanes, C14-17, chloro CAS: 85535-85-9 EC: 287-477-0 | Oral | Non-applicable | Non-applicable | 0,58 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 28,75 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 2 mg/m ³ | Non-applicable |
| Dimethyl ether CAS: 115-10-6 EC: 204-065-8 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 471 mg/m ³ | Non-applicable |
| Propane-1,2-diol, propoxylated CAS: 25322-69-4 EC: 500-039-8 | Oral | Non-applicable | Non-applicable | 24 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 51 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | Non-applicable | 10 mg/m ³ |

PNEC:

| Identification | | | | |
|--|--------------|----------------|-------------------------|--------------|
| Alkanes, C14-17, chloro CAS: 85535-85-9 EC: 287-477-0 | STP | 80 mg/L | Fresh water | 0,001 mg/L |
| | Soil | 11,9 mg/kg | Marine water | 0,0002 mg/L |
| | Intermittent | Non-applicable | Sediment (Fresh water) | 13 mg/kg |
| | Oral | 10 g/kg | Sediment (Marine water) | 2,6 mg/kg |
| Dimethyl ether CAS: 115-10-6 EC: 204-065-8 | STP | 160 mg/L | Fresh water | 0,155 mg/L |
| | Soil | 0,045 mg/kg | Marine water | 0,016 mg/L |
| | Intermittent | 1,549 mg/L | Sediment (Fresh water) | 0,681 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 0,069 mg/kg |
| Propane-1,2-diol, propoxylated CAS: 25322-69-4 EC: 500-039-8 | STP | 100 mg/L | Fresh water | 0,1 mg/L |
| | Soil | 0,109 mg/kg | Marine water | 0,01 mg/L |
| | Intermittent | 1 mg/L | Sediment (Fresh water) | 0,765 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 0,0765 mg/kg |

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8.2. Exposure control



8.2.1. General security and hygiene measures in the work place

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have CE marking in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

8.2.2. Respiratory protection



| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|--|---|--|---|
|  Mandatory respiratory tract protection | Filter mask for gases, vapours and particles |  | EN 149:2001+A1:2009 EN 405:2001+A1:2009 | Replace when an increase in resistance to breathing is observed and/or a smell or taste of the contaminant is detected. |

8.2.3. Specific protection for hands:





| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|---|---|---|--|
|  Mandatory hand protection | NON-disposable chemical protective gloves |  | EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009 | The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. |

As the product is a mixture of several substances, the resistance of the glove material cannot be predicted in advance with total reliability and should therefore be checked before application.

8.2.4. Ocular and facial protection:

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|-------------|---|---|---|
|  Mandatory face protection | Face shield |  | EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

8.2.5. Body protection:

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|---|---|---|---|
|  Mandatory complete body protection | Disposable clothing for protection against chemical risks, with antistatic and fireproof properties |  | EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2001 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994 | For professional use only. Clean periodically according to the manufacturer's instructions. |
|  Mandatory foot protection | Safety footwear for protection against chemical risk, with antistatic and heat resistant properties |  | EN 13287:2008 EN ISO 20345:2011 EN 13832-1:2006 | Replace boots at any sign of deterioration. |

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8.2.6. Additional emergency measures:

| Emergency measure | Standards | Emergency measure | Standards |
|---|---|---|--|
|  Emergency shower | ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011 |  Eyewash stations | DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 |

8.2.3. Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

| | |
|---------------------------|----------------|
| V.O.C. (Supply): | 21.4 % weight |
| V.O.C. density at 20 °C: | Non-applicable |
| Average carbon number: | Non-applicable |
| Average molecular weight: | Non-applicable |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties.

- | | |
|--|--|
| a) Appearance: Aerosol, light yellow | k) Vapour pressure: < 300 kPa at 50°C |
| b) Odour: Characteristic | l) Vapour density: No data available. |
| c) Odour Threshold: No data available. | m) Relative Density at 20°C: 0.98 |
| d) pH: No data available. | n) Solubility (ies) (water): No data available. |
| e) Melting point / freezing point: No data available. | o) Partition coefficient: n-octanol / water: No data available. |
| f) Initial boiling point and boiling range: Not applicable | p) Auto-ignition temperature: 460°C (propellant) |
| g) Flash point: -83°C (propellant) | q) Decomposition temperature: No data available. |
| h) Evaporation rate: No data available. | r) Viscosity: No data available. |
| i) Flammability (solid, gas): No data available. | s) Explosive properties: No data available. |
| j) Upper / lower flammability or explosive limits: No data available. | t) Oxidising properties: None |

9.2 Other Information:

No further data available.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

10.3 Possibility of Hazardous Reactions

No further relevant information available.
No decomposition if used and stored according to specifications.
No dangerous reactions known.

10.4 Conditions to Avoid

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|--------------------|------------------|-------------------------|---------------------|----------------|
| Not applicable | Not applicable | Risk of combustion | Avoid direct impact | Not applicable |

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10.5 Incompatible Materials

| Acids | Water | Oxidising materials | Combustible materials | Others |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable | Avoid alkalis or strong bases |

10.6 Hazardous decomposition products

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

The experimental information related to the toxicological properties of the product itself is not available.

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

11.1.1. Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

11.1.2. Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

11.1.3 Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

11.1.4. CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2. IARC: 4,4'-methylenediphenyl diisocyanate, isomers and homologues (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: May cause harm to breast-fed children

11.1.5. Sensitizing effects:

- Respiratory: Prolonged exposure can result in specific respiratory hypersensitivity.
- Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

11.1.6. Specific target organ toxicity (STOT) - single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

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11.1.7. Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Skin: Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

11.1.8. Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

| Identification | Acute toxicity | | Genus |
|---|-----------------|----------------------|-------|
| | | | |
| Propane-1,2-diol, propoxylated CAS: 25322-69-4 EC: 500-039-8 | LD50 oral | 1000 mg/kg | Rat |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation | >20 mg/L (4 h) | |
| Alkanes, C14-17, chloro CAS: 85535-85-9 EC: 287-477-0 | LD50 oral | >2000 mg/kg | |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation | >20 mg/L (4 h) | |
| 4,4'-methylenediphenyl diisocyanate, isomers and homologues CAS: 9016-87-9 EC: Non-applicable | LD50 oral | >2000 mg/kg | |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation | 11 mg/L (4 h) (ATEi) | |
| Isobutane CAS: 75-28-5 EC: 200-857-2 | LD50 oral | >2000 mg/kg | |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation | >5 mg/L (4 h) | |
| Propane CAS: 74-98-6 EC: 200-827-9 | LD50 oral | >2000 mg/kg | |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation | >5 mg/L (4 h) | |
| Dimethyl ether CAS: 115-10-6 EC: 204-065-8 | LD50 oral | >2000 mg/kg | |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation | 308.5 mg/L (4 h) | |

Acute toxicity estimate (ATE mix):

| ATE mix | | Ingredient(s) of unknown toxicity |
|------------|---------------------------------------|-----------------------------------|
| Oral | 13846.29 mg/kg (Calculation method) | 0 % |
| Dermal | >2000 mg/kg (Calculation method) | Non-applicable |
| Inhalation | 47.73 mg/L (4 h) (Calculation method) | 0 % |

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SECTION 12. ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available.

12.1. Toxicity:

| Identification | Acute toxicity | | Species | Genus |
|-------------------------|----------------|---------------------|---------|------------|
| | LC50 | 0.1 - 1 mg/L (96 h) | | |
| Alkanes, C14-17, chloro | EC50 | 0.1 - 1 mg/L | | Fish |
| CAS: 85535-85-9 | EC50 | 0.1 - 1 mg/L | | Crustacean |
| EC: 287-477-0 | EC50 | 0.1 - 1 mg/L | | Algae |

12.2. Persistence and degradability: Not available.

12.3. Bioaccumulative potential:

| Identification | Bioaccumulation potential | |
|----------------|---------------------------|---------|
| | BCF | Pow Log |
| Isobutane | 27 | 2.76 |
| CAS: 75-28-5 | Potential | Low |
| EC: 200-857-2 | BCF | 13 |
| Propane | Pow Log | 2.86 |
| CAS: 74-98-6 | Potential | Low |
| EC: 200-827-9 | | |

12.4. Mobility in soil:

| Identification | Absorption/desorption | | Volatility | |
|----------------|-----------------------|----------------------|------------|----------------------------------|
| | Koc | 35 | Henry | 120576.75 Pa·m ³ /mol |
| Isobutane | Conclusion | Very High | Dry soil | Yes |
| CAS: 75-28-5 | Surface tension | 9.84E-3 N/m (25 °C) | Moist soil | Yes |
| EC: 200-857-2 | Koc | Non-applicable | Henry | Non-applicable |
| Dimethyl ether | Conclusion | Non-applicable | Dry soil | Non-applicable |
| CAS: 115-10-6 | Surface tension | 1.136E-2 N/m (25 °C) | Moist soil | Non-applicable |
| EC: 204-065-8 | Koc | 460 | Henry | 71636.78 Pa·m ³ /mol |
| Propane | Conclusion | Moderate | Dry soil | Yes |
| CAS: 74-98-6 | Surface tension | 7.02E-3 N/m (25 °C) | Moist soil | Yes |
| EC: 200-827-9 | | | | |

12.5. Results of PBT and vPvB testing: Product fails to meet PBT / vPvB criteria.

12.6. Other adverse effects: Not described.

12.7. Additional information:

None.

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SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:

| Code | Description | Waste class (Regulation (EU) No 1357/2014) |
|-----------|---|--|
| 16 05 04* | gases in pressure containers (including halons) containing hazardous substances | Dangerous |

13.1.1. Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP7 Carcinogenic, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage.


13.1.2. Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC, The Waste Regulations 2011, 2011 No. 988). As under 15 01 (2014/955/EU) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

13.1.3. Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated. Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014.

SECTION 14. TRANSPORT INFORMATION

|  | Road ADR | Sea - IMDG Code | Air – ICAO-TI/IATA-DGR |
|--|--|--|---------------------------------|
| 14.1. UN Number | UN1950 | UN1950 | UN1950 |
| 14.2. UN proper shipping name | AEROSOLS, flammable. | AEROSOLS, flammable. | AEROSOLS, flammable. |
| 14.3. Transport hazard class(es) | 2, 2.1 | 2, 2.1 | 2, 2.1 |
| 14.4. Packing Group | N/A | N/A | N/A |
| 14.5. Environmental hazards | Yes | Yes | Yes |
| 14.6. Special precautions for user | Special regulations: 190, 327, 344, 625 Tunnel restriction code: D Physio-chemical: see section 9. Limited quantities: 1L | Special regulations: 63, 959, 190, 277, 327, 344 EmS Codes: F-D, S-U Physio-chemical: see section 9. Limited quantities: 1L Segregation group: Non-applicable. | Physio-chemical: see section 9. |
| 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: | Non-applicable | Non-applicable | Non-applicable |

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SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture:

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

| Section | Description | Lower-tier requirements | Upper-tier requirements |
|---------|-----------------------|-------------------------|-------------------------|
| P3a | FLAMMABLE AEROSOLS | 150 | 500 |
| E1 | ENVIRONMENTAL HAZARDS | 100 | 200 |

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ...):

Contains more than 0.1 % of 4,4'-methylenediphenyl diisocyanate, isomers and homologues by weight. This product may not be distributed in its present form for first-time sale to the general public after 27th December 2010 unless the packaging contains protective gloves meeting the provisions of European Council Directive 89/686/CEE.

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No. 1348.

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits

The Waste Regulations 2011, 2011 No. 988

Council Directive 75/324/EEC of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

Commission Directive 94/1/EC of 6 January 1994 adapting some technicalities of Council Directive 75/324/EEC on the approximation of the laws of the relating Member States to aerosol dispensers.

Commission Directive 2008/47/EC of 8 April 2008 amending, for the purposes of adapting to technical progress, Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers.

Commission Directive 2013/10/EU of 19 March 2013 amending Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers in order to adapt its labelling provisions to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

COMMISSION DIRECTIVE (EU) 2016/2037 of 21 November 2016 amending Council Directive 75/324/EEC as regards the maximum allowable pressure of aerosol dispensers and to adapt its labelling provisions to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

15.2 Chemical Safety Assessment: The supplier has not carried out an evaluation of chemical safety.

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SECTION 16. OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

· Supplementary information

Texts of the legislative phrases mentioned in section 2:

H362: May cause harm to breast-fed children

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

H315: Causes skin irritation

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317: May cause an allergic skin reaction

H351: Suspected of causing cancer

H335: May cause respiratory irritation

H373: May cause damage to organs through prolonged or repeated exposure

H229: Pressurised container: May burst if heated

H222: Extremely flammable aerosol

H319: Causes serious eye irritation

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed

Acute Tox. 4: H332 - Harmful if inhaled

Aquatic Acute 1: H400 - Very toxic to aquatic life

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects

Carc. 2: H351 - Suspected of causing cancer

Eye Irrit. 2: H319 - Causes serious eye irritation

Flam. Gas 1: H220 - Extremely flammable gas

Lact.: H362 - May cause harm to breast-fed children

Press. Gas: H280 - Contains gas under pressure, may explode if heated

Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Skin Irrit. 2: H315 - Causes skin irritation

Skin Sens. 1: H317 - May cause an allergic skin reaction

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure

STOT SE 3: H335 - May cause respiratory irritation

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Classification procedure:

Lact.: Calculation method
Aquatic Acute 1: Calculation method
Aquatic Chronic 1: Calculation method
Skin Irrit. 2: Calculation method
Resp. Sens. 1: Calculation method
Skin Sens. 1: Calculation method
Carc. 2: Calculation method
STOT SE 3: Calculation method
STOT RE 2: Calculation method
Aerosol 1: Calculation method
Aerosol 1: Calculation method
Eye Irrit. 2: Calculation method

Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>
<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon

This Product Safety Data Sheet was prepared in compliance with article 31 and Annex II of the EU REACH regulation as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

This product should only be used as stated in Hodgson literature. It is the responsibility of the persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose of or in any way come in to contact with the product. If the recipient subsequently produces a formulation containing the Hodgson product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Hodgson Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with article 31 and Annex II of the EU REACH regulation.

All information and instructions provided in the Product Safety Data Sheet are based on the current state of scientific and technical knowledge at the date indicated on the present Product Safety Data Sheet. Hodgson shall not be held responsible for any defect in the product covered by this Product Safety Data Sheet, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.